

# PATENT ABSTRACTS OF JAPAN

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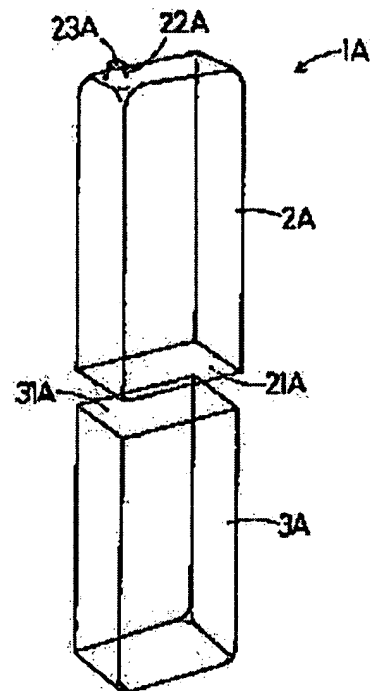
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## (54) COVER FOR PORTABLE TELEPHONE SET

### (57)Abstract:

PROBLEM TO BE SOLVED: To provide a cover for a portable telephone set capable of preventing water from entering the portable telephone set.

SOLUTION: A cover 1A comprises a plastic film having flexibility capable of at least operating push buttons of the portable telephone set, transparency capable of recognizing symbols of the push buttons and a display of a liquid crystal screen of the portable telephone set, voice transmission capable of having a conversation at least by the portable telephone set, and water impermeability. This is closely positioned to the portable phone and substantially seals the portable phone.



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## CLAIMS

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[Claim(s)]

[Claim 1] Covering for portable telephones which consists of plastic film which has the flexibility which is extent which can perform actuation of the push button of a portable telephone at least, the transparency which is extent which can recognize the notation of the push button of a portable telephone, and the display of a liquid crystal screen at least, the voice convective which are extent in which the conversation by the portable telephone is possible at least, and non-water permeability, is close to the body of a portable telephone, and can seal this portable telephone substantially.

[Claim 2] It is covering for portable telephones according to claim 1 which consists of up covering in which the lower limit is carrying out opening, and lower covering in which upper limit is carrying out opening, this up covering and this lower covering lap where a portable telephone is equipped, and has the section, and is mutually stuck in this lap section.

[Claim 3] Furthermore, covering for portable telephones according to claim 1 which is covering for portable telephones which consists of plastic film which has self-adhesion, and was equipped with the body section of covering in which upper limit is carrying out opening, and the covering device which can adhere to this body section of covering, and can blockade opening of this body section of covering substantially.

[Claim 4] It consists of up covering in which the lower limit is carrying out opening, and lower covering in which upper limit is carrying out opening. Where a portable telephone is equipped, this up covering and this lower covering lap, and it has the section. Are covering for portable telephones mutually stuck in this lap section, and the lower limit section and the tooth-back lengthwise direction center section of this lower covering become the upper limit section of this up covering, and a tooth-back lengthwise direction center-section list from the ingredient which has elasticity and non-water permeability. The flexibility which is extent to which the other part is made as for actuation of the push button of a portable telephone at least, The transparency which is extent which can recognize the notation of the push button of a portable telephone, and the display of a liquid crystal screen at least, It is covering for portable telephones which it consists of plastic film which has the voice convective which is extent in which the conversation by the portable telephone is possible at least, and non-water permeability, and this up covering and this lower covering are close to the body of a portable telephone, and can seal this portable telephone substantially.

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## DETAILED DESCRIPTION

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[Detailed Description of the Invention]

[0001]

[Field of the Invention] This invention relates to covering for portable telephones which covers a portable telephone.

[0002]

[Description of the Prior Art] The portable telephone which has spread now was weak in water, for example, when it dropped on a puddle etc., this telephone broke down and it had the problem of memory, such as the telephone number, disappearing.

[0003] There is a thing using a shrink package to protect a portable telephone from the wet hand conventionally. After putting this shrink package on a portable telephone, the heat shrink of it is carried out and it is made close to this portable telephone, but in order to close charge of this portable telephone if since it cannot remove once it equips a portable telephone, after it puts this shrink package on a portable telephone, it needs to cut off and carry out opening of the part applicable to the terminal for charge of this portable telephone. Therefore, when the portable telephone equipped with this shrink package is immersed in water, water infiltrates into the interior of telephone from opening (terminal for charge of this portable telephone) of this shrink package, and problems, such as failure of this telephone and disappearance of memory, are caused.

[0004] Therefore, the technical problem of this invention is offering covering for portable telephones which can prevent permeation of the water to a portable telephone.

[0005]

[Means for Solving the Problem] The flexibility which is extent which can perform actuation of the push button (B) of a portable telephone (P) at least in order that this invention may solve the above-mentioned technical problem, The transparency which is extent which can recognize the notation of the push button (B) of a portable telephone (P), and the display of a liquid crystal screen (L) at least, It consists of plastic film which has the voice convective which is extent in which the conversation by the portable telephone (P) is possible at least, and non-water permeability, and is close to the body of a portable telephone (P), and covering for portable telephones (1 --) which can seal this portable telephone (P) substantially is offered.

[0006] As such covering for portable telephones (1 --) It consists of up covering (2 --) in which the lower limit is carrying out opening, and lower covering (3 --) in which upper limit is carrying out opening. Where a portable telephone (P) is equipped, this up covering (2 --) and this lower covering (3 --) lap, and it has the section (4 --). The body section of covering in which is covering for portable telephones (1 --) which consists of transparency plastic film which may stick mutually in this lap section (4 --), and has self-adhesion further, and upper limit is carrying out opening (6 --), You may have the covering device (7 --) which can adhere to this body section of covering (6 --), and can blockade substantially opening (61 --) of this body section of covering (6 --).

[0007] Moreover, this invention consists of up covering (2H) in which the lower limit is carrying out opening, and lower covering (3H) in which upper limit is carrying out opening. Where a portable

telephone (P) is equipped, this up covering (2H) and this lower covering (3H) lap, and it has the section. It is covering for portable telephones (1H) mutually stuck in this lap section. The lower limit section (39H) and the tooth-back (38H) lengthwise direction center section (381 H) of this lower covering (3H) become the upper limit section (29H) of this up covering (2H), and a tooth-back (28H) lengthwise direction center-section (281H) list from the ingredient which has elasticity and non-water permeability. The other part The flexibility which is extent which can perform actuation of the push button (B) of a portable telephone (P) at least, The transparency which is extent which can recognize the notation (B) of the push button of a portable telephone, and the display of a liquid crystal screen (L) at least, The voice convective which is extent in which the conversation by the portable telephone (P) is possible at least, Consisting of plastic film which has non-water permeability, this up covering (2H) and this lower covering (3H) are close to the body of a portable telephone (P), and offer covering for portable telephones (1H) which can seal this portable telephone (P) substantially.

[0008]

[Embodiment of the Invention] Hereafter, this invention is explained to a detail with reference to a drawing. Covering for portable telephones by 1 operation gestalt of this invention is shown in drawing 1 and drawing 2 . Covering 1A for portable telephones shown in drawing 1 and drawing 2 has a configuration close to the upper part of a body of a portable telephone P, it consists of up covering 2A in which the lower limit is carrying out opening, and lower covering 3A in which have a configuration close to the body lower part of a portable telephone P, and upper limit is carrying out opening, and opening 21 of this up covering 2A A is slightly formed greatly rather than opening 31 of this lower covering 3A A. In the top-face flank of this up covering 2A, cylinder part 22A protrudes on the location corresponding to the antenna of this portable telephone P, and hole 23A in the upper limit of this cylinder part 22A has the outer diameter of the antenna point Pa of this portable telephone P, and the bore of abbreviation identitas ( drawing 3 ).

[0009] As shown in drawing 2 , where a portable telephone P is equipped with this covering 1A for portable telephones, up covering 2A and lower covering 3A lap this up covering 2A considering an outside and this lower covering 3A as the inside, have section 4A, and stick mutually this up covering 2A and this lower covering 3A in this lap section 4A.

[0010] This up covering 2A and lower covering 3A consist of plastic film which has the flexibility which is extent which can perform actuation of the push button B of a portable telephone P at least, the transparency which is extent which can recognize the notation of the push button B of a portable telephone P, and the display (it restricts when there is a liquid crystal screen L) of the liquid crystal screen L at least, the voice convective which are extent in which the conversation by the portable telephone P is possible at least, and non-water permeability. It consists of plastic film with which the attachment and detachment to a portable telephone P have rigidity in easy extent desirable further.

[0011] As such plastic film, the film which consists of thermoplastic synthetic resin, such as polyester, such as polyethylene, polypropylene, ethylene propylene rubber, and polyethylene terephthalate, a polyvinyl chloride, a thermoplastic polyamide, polystyrene, a polycarbonate, thermoplastic acrylic resin, an acrylonitrile-butadiene copolymer, a styrene-butadiene copolymer, and acrylonitrile-butadiene-styrene copolymer, for example is mentioned. Although the thickness of this plastic film therefore differs also in the class of plastics, it is desirable that it is usually 1 micrometer - 2mm.

[0012] In the above covering 1A for portable telephones, since up covering 2A and lower covering 3A have flexibility, transparency, and voice convective and are close to the body of a portable telephone P, respectively, they can use a portable telephone P, equipped with this covering 1A for portable telephones. Moreover, since up covering 2A and lower covering 3A have non-water permeability, and this up covering 2A and lower covering 3A are mutually stuck in lap section 4A and the pore 23A periphery for antennas is close to the antenna point Pa, this covering 1A for portable telephones can seal substantially the portable telephone P of an antenna Pa receipt condition, and can carry out abbreviation prevention of the permeation of the water to this portable telephone P. Therefore, even if it is the case where the portable telephone P equipped with this covering 1A for portable telephones is immersed in water, if it takes out for a short time, failure of this portable telephone P, memory disappearance, etc.

can be prevented.

[0013] In addition, since this covering 1A for portable telephones can carry out desorption of up covering 2A and the lower covering 3A easily the upper part and by drawing out caudad, respectively, even if it is the case where this portable telephone P is charged, it can expose the terminal for charge of this portable telephone P simply.

[0014] Without being limited to the above-mentioned operation gestalt, covering for portable telephones of this invention can perform various modification, unless it deviates from the range of this invention. For example, the cap for antenna points may be attached in up covering removable, and you may cover to an antenna point with up covering.

[0015] Drawing 4 (a) Protruding line 24B is attached around the peripheral face of cylinder part 22B in up covering 2B in the shown example. On the other hand, paste the antenna point Pa and a lower limit to the lower inner skin of cap 5B for antenna points which is located caudad and is carrying out opening from this antenna point Pa Concave 51B which engages with protruding line 24 of this up covering 2B cylinder part 22B B is attached, in the state of antenna receipt, protruding line 24 of this up covering 2B cylinder part 22B B and concave 51 of this cap 5B B can be engaged, and the circumference of the antenna in this portable telephone P can be sealed. What is necessary is just to pull this cap 5B to the portable telephone P upper part with the antenna point Pa, removing engagement to protruding line 24 of this up covering 2B cylinder part 22B B, and concave 51 of this cap 5B B, in lengthening an antenna.

[0016] Drawing 4 (b) By the shown example, heights 22B' is prepared in the location corresponding to the antenna of the portable telephone P in up covering 2B', and it can cover to the antenna point Pa by this heights 22B', therefore permeation of the water from the circumference of an antenna can be prevented certainly. In addition, what is necessary is to remove only this up covering 2B' from a portable telephone P, when an antenna needs to be lengthened.

[0017] Moreover, the opening edge of up covering in covering for portable telephones of this invention and/or the opening edge of lower covering may be formed aslant. In the example shown in drawing 5, it slits upwards opening edge 210 applying [ of up covering 2C ] it to tooth-back 28C from transverse-plane 27C of this up covering 2C, and it slits upwards, opening edge 310 applying [ of lower covering 3C ] it to tooth-back 38C from transverse-plane 37C of this lower covering 3C. Thus, since the area of Openings 21C and 31C becomes large by forming opening edge 210 C and 310 C aslant, wearing to the portable telephone P of this up covering 2C and lower covering 3C becomes easy.

[0018] Furthermore, in the lap section of up covering of covering for portable telephones of this invention, and lower covering, the protruding line/concave engaged mutually, respectively may be prepared in this up covering and this lower covering.

[0019] By the example shown in drawing 6, it sets to lap section 4D of up covering 2D of covering 1D for portable telephones, and lower covering 3D. Where protruding line 35D is attached around the peripheral face of this lower covering 3D, concave 25D is attached around the inner skin of this up covering 2D and a portable telephone P is equipped Protruding line 35D of this lower covering 3D and concave 25D of this up covering 2D are engaged ( drawing 7 ), and this portable telephone P is sealed. When concave 25D of protruding line 35D of this lower covering 3D and this up covering 2D equips a portable telephone P with this covering 1D for portable telephones, it is desirable to prepare so that it may not be located on the push button B of this portable telephone P.

[0020] Thus, permeation of the water from few gaps in lap section 4D of this lower covering 3D and this up covering 2D can be prevented by forming protruding line 35D and concave 25D which engage with lower covering 3D and up covering 2D mutually, respectively. Moreover, the waterproofness will become still higher if the number of a protruding line/concaves is increased.

[0021] By the example shown in drawing 7, it sets to lap section 4E of up covering 2 of covering 1E for portable telephones E, and lower covering 3E. Where protruding lines 35E and 36E are attached around the peripheral face of this lower covering 3E, Concaves 25E and 26E are attached around the inner skin of this up covering 2E and a portable telephone P is equipped While protruding line 35 of this lower covering 3E E and concave 25 of this up covering 2E E are engaged, protruding line 36 of this lower covering 3E E and concave 26 of this up covering 2E E are engaged, and this portable telephone P is

sealed.

[0022] In addition, although both have lapped opening of up covering being greatly formed slightly rather than opening of lower covering, and having used an outside and this lower covering as the inside for this up covering in the state of portable telephone wearing in covering for portable telephones by the above operation gestalt This invention is not limited to this, and conversely, opening of lower covering is slightly formed greatly rather than opening of up covering, and you may lap this lower covering considering an outside and this up covering as the inside in a portable telephone wearing condition. In such a configuration, in case it charges, up covering has the advantage of being good that what is necessary is to draw out only lower covering caudad, equipping a portable telephone.

[0023] Next, covering for portable telephones by other operation gestalten of this invention is shown in drawing 9 and drawing 10 . the object for portable telephones shown in drawing 9 and drawing 10 -- covering 1F Body section of covering 6F in which have the configuration stuck to fields other than the top face of a portable telephone P, and upper limit is carrying out opening, this -- from tooth-back 62F of body section of covering 6F -- continuing -- \*\*\*\* -- this -- opening 61F of body section of covering 6F -- blockading -- and -- this -- it consists of covering device 7F which have the magnitude which can adhere to transverse-plane 63F and the side faces 64F and 64F of body section of covering 6F.

[0024] this object for portable telephones -- covering 1F consist of self-adhesion and plastic film which has elasticity further preferably while having the same flexibility as the above-mentioned covering 1A for portable telephones, transparency, voice convective, and non-water permeability.

[0025] As such plastic film, the film which consists of polyurethane system synthetic resin, polyvinylidene chloride system synthetic resin, polyvinyl acetate system synthetic resin, etc., for example is mentioned, and it is about 1.5-700 preferably. The polyurethane system elastomer film which has twice as many elasticity as this is used. The thickness of this plastic film is usually 0.1, although it therefore differs also in the class of plastics. It is desirable that it is mum-1mm.

[0026] the above-mentioned object for a portable telephone -- since covering 1F have flexibility, transparency, and voice convective and it is close to a portable telephone P -- this object for portable telephones -- a portable telephone P can be used, equipped with covering 1F. moreover, this object for portable telephones -- covering 1F, since it has self-adhesion while having non-water permeability A portable telephone P is held in body section of covering 6F. By covering device 7F The top face of this portable telephone P, after [ furthermore, ] covering the antenna point Pa -- this -- covering device 7F -- this -- it can be made to be able to adhere to transverse-plane 63F and the side faces 64F and 64F of body section of covering 6F, therefore this portable telephone P can be sealed substantially, and permeation of the water to this portable telephone P can be prevented.

[0027] in addition, this covering 1 for portable telephones -- covering device 7F in which F has adhered to transverse-plane 63F and the side faces 64F and 64F of body section of covering 6F -- removing -- this -- since desorption of body section of covering 6F can be easily carried out by [ of a portable telephone P ] drawing out caudad, even if it is the case where this portable telephone P is charged, the terminal for charge of this portable telephone P can be exposed simply. moreover -- the case where an antenna needs to be lengthened -- covering device 7F -- from transverse-plane 63F and the side faces 64F and 64F of body section of covering 6F -- removing -- this -- what is necessary is just to carry out opening of body section of covering 6F

[0028] The above-mentioned covering for portable telephones may equip tooth-back 62G of body section of covering 6G with base-plate 8G which have rigidity to some extent, as shown in drawing 11 . preparing such base-plate 8G in tooth-back 62G of body section of covering 6G -- this object for portable telephones -- attachment and detachment of covering 1G become easy. moreover -- this -- base-plate 8G -- strap lug section 81G -- it can also prepare -- this case -- this -- a strap can be attached in strap lug section 81G. In addition, the hole for antennas may be prepared in the covering devices 7F and 7G of the above-mentioned coverings 1F and 1G for portable telephones, and the cap for antenna points may be attached in the hole further for these antennas removable at them.

[0029] Covering for portable telephones by another operation gestalt of this invention is shown in drawing 12 . the object for portable telephones shown in drawing 12 -- covering 1H, although it has the

same configuration as covering 1A for portable telephones, and abbreviation shown in drawing 1 Up covering 2H do not have a cylinder part corresponding to an antenna, but opening 21H of up covering 2H are slightly formed small rather than opening 31H of lower covering 3H. furthermore -- this -- the lengthwise direction center-section 281 H list of upper limit section (this operation gestalt top face) 29H of up covering 2H, and tooth-back 28H -- this -- lengthwise direction center-section 381 of lower limit section (this operation gestalt inferior surface of tongue) 39H of lower covering 3H and tooth-back 38H H consists of an ingredient which has elasticity and non-water permeability.

[0030] As an ingredient which has this elasticity and non-water permeability, although various rubber and/or elastomers can be used, it is about 1.5-700 preferably. The polyurethane system elastomer film which has twice as many elasticity as this is used. In addition, this ingredient does not need to be transparent.

[0031] such an object for portable telephones -- covering 1H -- setting -- the top-face 29H and tooth-back 28H lengthwise direction center-section 281 H list of up covering 2H -- this -- telescopic motion of inferior-surface-of-tongue 39H of lower covering 3H, and tooth-back 38H lengthwise direction center-section 381 H -- the antenna point Pa -- a wrap -- while things are made, the various portable telephones P with which configurations differ can be made to correspond

[0032]

[Effect of the Invention] According to covering for portable telephones of this invention, permeation of the water to a portable telephone can be prevented substantially.

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TECHNICAL FIELD

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[Field of the Invention] This invention relates to covering for portable telephones which covers a portable telephone.

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EFFECT OF THE INVENTION

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[Effect of the Invention] According to covering for portable telephones of this invention, permeation of the water to a portable telephone can be prevented substantially.

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TECHNICAL PROBLEM

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[Description of the Prior Art] The portable telephone which has spread now was weak in water, for example, when it dropped on a puddle etc., this telephone broke down and it had the problem of memory, such as the telephone number, disappearing.

[0003] There is a thing using a shrink package to protect a portable telephone from the wet hand conventionally. After putting this shrink package on a portable telephone, the heat shrink of it is carried out and it is made close to this portable telephone, but in order to close charge of this portable telephone if since it cannot remove once it equips a portable telephone, after it puts this shrink package on a portable telephone, it needs to cut off and carry out opening of the part applicable to the terminal for charge of this portable telephone. Therefore, when the portable telephone equipped with this shrink package is immersed in water, water infiltrates into the interior of telephone from opening (terminal for charge of this portable telephone) of this shrink package, and problems, such as failure of this telephone and disappearance of memory, are caused.

[0004] Therefore, the technical problem of this invention is offering covering for portable telephones which can prevent permeation of the water to a portable telephone.

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MEANS

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[Means for Solving the Problem] The flexibility which is extent which can perform actuation of the push button (B) of a portable telephone (P) at least in order that this invention may solve the above-mentioned technical problem, The transparency which is extent which can recognize the notation of the push button (B) of a portable telephone (P), and the display of a liquid crystal screen (L) at least, It consists of plastic film which has the voice convective which is extent in which the conversation by the portable telephone (P) is possible at least, and non-water permeability, and is close to the body of a portable telephone (P), and covering for portable telephones (1 --) which can seal this portable telephone (P) substantially is offered.

[0006] As such covering for portable telephones (1 --) It consists of up covering (2 --) in which the lower limit is carrying out opening, and lower covering (3 --) in which upper limit is carrying out opening. Where a portable telephone (P) is equipped, this up covering (2 --) and this lower covering (3 --) lap, and it has the section (4 --). The body section of covering in which is covering for portable telephones (1 --) which consists of transparence plastic film which may stick mutually in this lap section (4 --), and has self-adhesion further, and upper limit is carrying out opening (6 --), You may have the covering device (7 --) which can adhere to this body section of covering (6 --), and can blockade substantially opening (61 --) of this body section of covering (6 --).

[0007] Moreover, this invention consists of up covering (2H) in which the lower limit is carrying out opening, and lower covering (3H) in which upper limit is carrying out opening. Where a portable telephone (P) is equipped, this up covering (2H) and this lower covering (3H) lap, and it has the section. It is covering for portable telephones (1H) mutually stuck in this lap section. The lower limit section (39H) and the tooth-back (38H) lengthwise direction center section (381 H) of this lower covering (3H) become the upper limit section (29H) of this up covering (2H), and a tooth-back (28H) lengthwise direction center-section (281H) list from the ingredient which has elasticity and non-water permeability. The other part The flexibility which is extent which can perform actuation of the push button (B) of a portable telephone (P) at least, The transparency which is extent which can recognize the notation (B) of the push button of a portable telephone, and the display of a liquid crystal screen (L) at least, The voice convective which is extent in which the conversation by the portable telephone (P) is possible at least, Consisting of plastic film which has non-water permeability, this up covering (2H) and this lower covering (3H) are close to the body of a portable telephone (P), and offer covering for portable telephones (1H) which can seal this portable telephone (P) substantially.

[0008]

[Embodiment of the Invention] Hereafter, this invention is explained to a detail with reference to a drawing. Covering for portable telephones by 1 operation gestalt of this invention is shown in drawing 1 and drawing 2 . Covering 1A for portable telephones shown in drawing 1 and drawing 2 has a configuration close to the upper part of a body of a portable telephone P, it consists of up covering 2A in which the lower limit is carrying out opening, and lower covering 3A in which have a configuration close to the body lower part of a portable telephone P, and upper limit is carrying out opening, and opening 21 of this up covering 2A A is slightly formed greatly rather than opening 31 of this lower

covering 3A A. In the top-face flank of this up covering 2A, cylinder part 22A protrudes on the location corresponding to the antenna of this portable telephone P, and hole 23A in the upper limit of this cylinder part 22A has the outer diameter of the antenna point Pa of this portable telephone P, and the bore of abbreviation identitas ( drawing 3 ).

[0009] As shown in drawing 2 , where a portable telephone P is equipped with this covering 1A for portable telephones, up covering 2A and lower covering 3A lap this up covering 2A considering an outside and this lower covering 3A as the inside, have section 4A, and stick mutually this up covering 2A and this lower covering 3A in this lap section 4A.

[0010] This up covering 2A and lower covering 3A consist of plastic film which has the flexibility which is extent which can perform actuation of the push button B of a portable telephone P at least, the transparency which is extent which can recognize the notation of the push button B of a portable telephone P, and the display (it restricts when there is a liquid crystal screen L) of the liquid crystal screen L at least, the voice convective which are extent in which the conversation by the portable telephone P is possible at least, and non-water permeability. It consists of plastic film with which the attachment and detachment to a portable telephone P have rigidity in easy extent desirable further.

[0011] As such plastic film, the film which consists of thermoplastic synthetic resin, such as polyester, such as polyethylene, polypropylene, ethylene propylene rubber, and polyethylene terephthalate, a polyvinyl chloride, a thermoplastic polyamide, polystyrene, a polycarbonate, thermoplastic acrylic resin, an acrylonitrile-butadiene copolymer, a styrene-butadiene copolymer, and acrylonitrile-butadiene-styrene copolymer, for example is mentioned. Although the thickness of this plastic film therefore differs also in the class of plastics, it is desirable that it is usually 1 micrometer - 2mm.

[0012] In the above covering 1A for portable telephones, since up covering 2A and lower covering 3A have flexibility, transparency, and voice convective and are close to the body of a portable telephone P, respectively, they can use a portable telephone P, equipped with this covering 1A for portable telephones. Moreover, since up covering 2A and lower covering 3A have non-water permeability, and this up covering 2A and lower covering 3A are mutually stuck in lap section 4A and the pore 23A periphery for antennas is close to the antenna point Pa, this covering 1A for portable telephones can seal substantially the portable telephone P of an antenna Pa receipt condition, and can carry out abbreviation prevention of the permeation of the water to this portable telephone P. Therefore, even if it is the case where the portable telephone P equipped with this covering 1A for portable telephones is immersed in water, if it takes out for a short time, failure of this portable telephone P, memory disappearance, etc. can be prevented.

[0013] In addition, since this covering 1A for portable telephones can carry out desorption of up covering 2A and the lower covering 3A easily the upper part and by drawing out caudad, respectively, even if it is the case where this portable telephone P is charged, it can expose the terminal for charge of this portable telephone P simply.

[0014] Without being limited to the above-mentioned operation gestalt, covering for portable telephones of this invention can perform various modification, unless it deviates from the range of this invention. For example, the cap for antenna points may be attached in up covering removable, and you may cover to an antenna point with up covering.

[0015] Drawing 4 (a) Protruding line 24B is attached around the peripheral face of cylinder part 22B in up covering 2B in the shown example. On the other hand, paste the antenna point Pa and a lower limit to the lower inner skin of cap 5B for antenna points which is located caudad and is carrying out opening from this antenna point Pa Concave 51B which engages with protruding line 24 of this up covering 2B cylinder part 22B B is attached, in the state of antenna receipt, protruding line 24 of this up covering 2B cylinder part 22B B and concave 51 of this cap 5B B can be engaged, and the circumference of the antenna in this portable telephone P can be sealed. What is necessary is just to pull this cap 5B to the portable telephone P upper part with the antenna point Pa, removing engagement to protruding line 24 of this up covering 2B cylinder part 22B B, and concave 51 of this cap 5B B, in lengthening an antenna.

[0016] Drawing 4 (b) By the shown example, heights 22B' is prepared in the location corresponding to the antenna of the portable telephone P in up covering 2B', and it can cover to the antenna point Pa by

this heights 22B', therefore permeation of the water from the circumference of an antenna can be prevented certainly. In addition, what is necessary is to remove only this up covering 2B' from a portable telephone P, when an antenna needs to be lengthened.

[0017] Moreover, the opening edge of up covering in covering for portable telephones of this invention and/or the opening edge of lower covering may be formed aslant. In the example shown in drawing 5, it slits upwards opening edge 210 applying [ of up covering 2C ] it to tooth-back 28C from transverse-plane 27C of this up covering 2C, and it slits upwards, opening edge 310 applying [ of lower covering 3C ] it to tooth-back 38C from transverse-plane 37C of this lower covering 3C. Thus, since the area of Openings 21C and 31C becomes large by forming opening edge 210 C and 310 C aslant, wearing to the portable telephone P of this up covering 2C and lower covering 3C becomes easy.

[0018] Furthermore, in the lap section of up covering of covering for portable telephones of this invention, and lower covering, the protruding line/concave engaged mutually, respectively may be prepared in this up covering and this lower covering.

[0019] By the example shown in drawing 6, it sets to lap section 4D of up covering 2D of covering 1D for portable telephones, and lower covering 3D. Where protruding line 35D is attached around the peripheral face of this lower covering 3D, concave 25D is attached around the inner skin of this up covering 2D and a portable telephone P is equipped Protruding line 35D of this lower covering 3D and concave 25D of this up covering 2D are engaged ( drawing 7 ), and this portable telephone P is sealed. When concave 25D of protruding line 35D of this lower covering 3D and this up covering 2D equips a portable telephone P with this covering 1D for portable telephones, it is desirable to prepare so that it may not be located on the push button B of this portable telephone P.

[0020] Thus, permeation of the water from few gaps in lap section 4D of this lower covering 3D and this up covering 2D can be prevented by forming protruding line 35D and concave 25D which engage with lower covering 3D and up covering 2D mutually, respectively. Moreover, the waterproofness will become still higher if the number of a protruding line/concaves is increased.

[0021] By the example shown in drawing 7, it sets to lap section 4E of up covering 2of covering 1E for portable telephones E, and lower covering 3E. Where protruding lines 35E and 36E are attached around the peripheral face of this lower covering 3E, Concaves 25E and 26E are attached around the inner skin of this up covering 2E and a portable telephone P is equipped While protruding line 35of this lower covering 3E E and concave 25of this up covering 2E E are engaged, protruding line 36of this lower covering 3E E and concave 26of this up covering 2E E are engaged, and this portable telephone P is sealed.

[0022] In addition, although both have lapped opening of up covering being greatly formed slightly rather than opening of lower covering, and having used an outside and this lower covering as the inside for this up covering in the state of portable telephone wearing in covering for portable telephones by the above operation gestalt This invention is not limited to this, and conversely, opening of lower covering is slightly formed greatly rather than opening of up covering, and you may lap this lower covering considering an outside and this up covering as the inside in a portable telephone wearing condition. In such a configuration, in case it charges, up covering has the advantage of being good that what is necessary is to draw out only lower covering caudad, equipping a portable telephone.

[0023] Next, covering for portable telephones by other operation gestalten of this invention is shown in drawing 9 and drawing 10. the object for portable telephones shown in drawing 9 and drawing 10 -- covering 1F Body section of covering 6F in which have the configuration stuck to fields other than the top face of a portable telephone P, and upper limit is carrying out opening, this -- from tooth-back 62F of body section of covering 6F -- continuing -- \*\*\*\* -- this -- opening 61F of body section of covering 6F -- blockading -- and -- this -- it consists of covering device 7F which have the magnitude which can adhere to transverse-plane 63F and the side faces 64F and 64F of body section of covering 6F.

[0024] this object for portable telephones -- covering 1F consist of self-adhesion and plastic film which has elasticity further preferably while having the same flexibility as the above-mentioned covering 1A for portable telephones, transparency, voice convective, and non-water permeability.

[0025] As such plastic film, the film which consists of polyurethane system synthetic resin,

polyvinylidene chloride system synthetic resin, polyvinyl acetate system synthetic resin, etc., for example is mentioned, and it is about 1.5-700 preferably. The polyurethane system elastomer film which has twice as many elasticity as this is used. The thickness of this plastic film is usually 0.1, although it therefore differs also in the class of plastics. It is desirable that it is mm-1mm.

[0026] the above-mentioned object for a portable telephone -- since covering 1F have flexibility, transparency, and voice convective and it is close to a portable telephone P -- this object for portable telephones -- a portable telephone P can be used, equipped with covering 1F. moreover, this object for portable telephones -- covering 1F, since it has self-adhesion while having non-water permeability A portable telephone P is held in body section of covering 6F. By covering device 7F The top face of this portable telephone P, after [ furthermore, ] covering the antenna point Pa -- this -- covering device 7F -- this -- it can be made to be able to adhere to transverse-plane 63F and the side faces 64F and 64F of body section of covering 6F, therefore this portable telephone P can be sealed substantially, and permeation of the water to this portable telephone P can be prevented.

[0027] in addition, this covering 1 for portable telephones -- covering device 7F in which F has adhered to transverse-plane 63F and the side faces 64F and 64F of body section of covering 6F -- removing -- this -- since desorption of body section of covering 6F can be easily carried out by [ of a portable telephone P ] drawing out caudad, even if it is the case where this portable telephone P is charged, the terminal for charge of this portable telephone P can be exposed simply. moreover -- the case where an antenna needs to be lengthened -- covering device 7F -- from transverse-plane 63F and the side faces 64F and 64F of body section of covering 6F -- removing -- this -- what is necessary is just to carry out opening of body section of covering 6F

[0028] The above-mentioned covering for portable telephones may equip tooth-back 62G of body section of covering 6G with base-plate 8G which have rigidity to some extent, as shown in drawing 11 . preparing such base-plate 8G in tooth-back 62G of body section of covering 6G -- this object for portable telephones -- attachment and detachment of covering 1G become easy. moreover -- this -- base-plate 8G -- strap lug section 81G -- it can also prepare -- this case -- this -- a strap can be attached in strap lug section 81G. In addition, the hole for antennas may be prepared in the covering devices 7F and 7G of the above-mentioned coverings 1F and 1G for portable telephones, and the cap for antenna points may be attached in the hole further for these antennas removable at them.

[0029] Covering for portable telephones by another operation gestalt of this invention is shown in drawing 12 . the object for portable telephones shown in drawing 12 -- covering 1H, although it has the same configuration as covering 1A for portable telephones, and abbreviation shown in drawing 1 Up covering 2H do not have a cylinder part corresponding to an antenna, but opening 21H of up covering 2H are slightly formed small rather than opening 31H of lower covering 3H. furthermore -- this -- the lengthwise direction center-section 281 H list of upper limit section (this operation gestalt top face) 29H of up covering 2H, and tooth-back 28H -- this -- lengthwise direction center-section 381 of lower limit section (this operation gestalt inferior surface of tongue) 39H of lower covering 3H and tooth-back 38H H consists of an ingredient which has elasticity and non-water permeability.

[0030] As an ingredient which has this elasticity and non-water permeability, although various rubber and/or elastomers can be used, it is about 1.5-700 preferably. The polyurethane system elastomer film which has twice as many elasticity as this is used. In addition, this ingredient does not need to be transparent.

[0031] such an object for portable telephones -- covering 1H -- setting -- the top-face 29H and tooth-back 28H lengthwise direction center-section 281 H list of up covering 2H -- this -- telescopic motion of inferior-surface-of-tongue 39H of lower covering 3H, and tooth-back 38H lengthwise direction center-section 381 H -- the antenna point Pa -- a wrap -- while things are made, the various portable telephones P with which configurations differ can be made to correspond

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3. In the drawings, any words are not translated.

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**DESCRIPTION OF DRAWINGS**

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**[Brief Description of the Drawings]**

[Drawing 1] It is the perspective view of covering for portable telephones by 1 operation gestalt of this invention.

[Drawing 2] It is the perspective view showing the condition of having equipped the portable telephone with covering for portable telephones in drawing 1 .

[Drawing 3] It is the partial front view of covering for portable telephones in drawing 1 .

[Drawing 4] (a) (b) It is the partial front view of covering for portable telephones by other operation gestalten of both this inventions.

[Drawing 5] It is the perspective view of covering for portable telephones by other operation gestalten of this invention.

[Drawing 6] It is the front view showing the condition of having equipped the portable telephone with covering for portable telephones by other operation gestalten of this invention.

[Drawing 7] It is the fragmentary sectional view of covering for portable telephones in drawing 6 .

[Drawing 8] It is the front view showing the condition of having equipped the portable telephone with covering for portable telephones by other operation gestalten of this invention.

[Drawing 9] It is the perspective view of covering for portable telephones by another operation gestalt of this invention.

[Drawing 10] It is the perspective view showing the condition of having equipped the portable telephone with covering for portable telephones in drawing 9 .

[Drawing 11] It is the perspective view of covering for portable telephones by another operation gestalt of this invention.

[Drawing 12] It is the perspective view of covering for portable telephones by still more nearly another operation gestalt of this invention.

**[Description of Notations]**

1A, 1C, 1D, 1E, 1F, 1G, 1H -- Covering for portable telephones

2A, 2B, and 2B'2C, 2D, 2E, 2H -- Up covering

21A, 21C -- Opening

210 C -- Opening Edge

22A, 22B -- Cylinder part

22B' -- Heights

23A -- Hole

24B -- Protruding line

25D, 25E, 26E -- Concave

27C -- Transverse plane

28C, 28H -- Tooth back

281 H -- Lengthwise Direction Center Section

29H -- Upper limit section (top face)

3A, 3C, 3D, 3E, 3H -- Lower covering



31A, 31C -- Opening  
310 C -- Opening Edge  
35D, 35E, 36E -- Protruding line  
37C -- Transverse plane  
38C, 38H -- Tooth back  
381 H -- Lengthwise Direction Center Section  
39H -- Lower limit section (inferior surface of tongue)  
4A, 4D, 4E -- Lap section  
5B -- Cap for antenna points  
51B -- Concave  
6F, 6G -- Body section of covering  
61F, 61G -- Opening  
62F, 62G -- Tooth back  
63F -- Transverse plane  
64F -- Side face  
7F, 7G -- Covering device  
8G -- Base plate  
81G -- Strap lug section

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[Translation done.]

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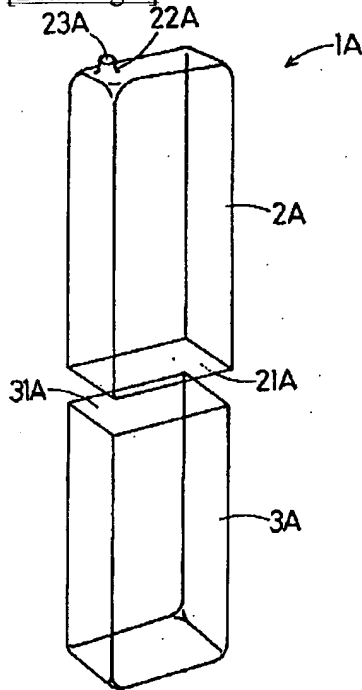
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DRAWINGS

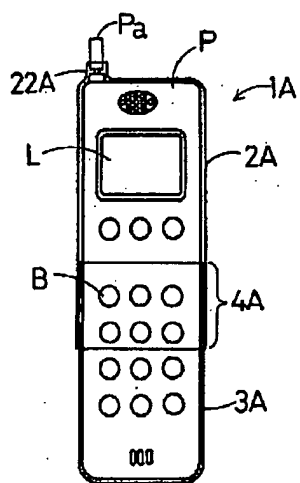
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[Drawing 1]

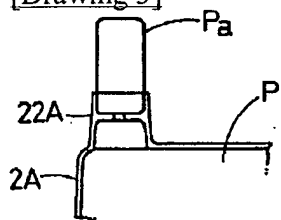


1A : 携帯電話機用カバー  
2A : 上部カバー 22A : 筒部  
23A : 孔 3A : 下部カバー

[Drawing 2]

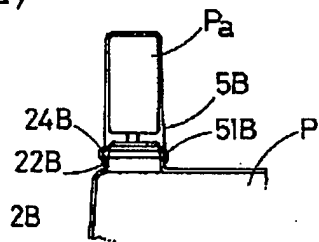


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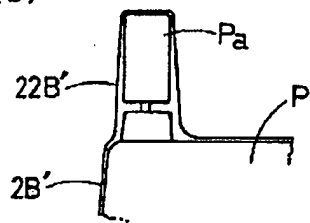


[Drawing 4]

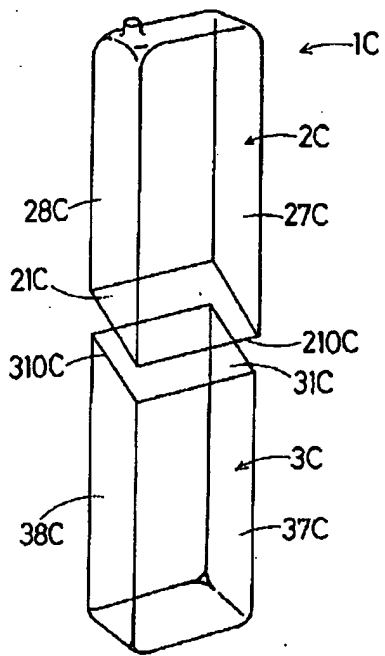
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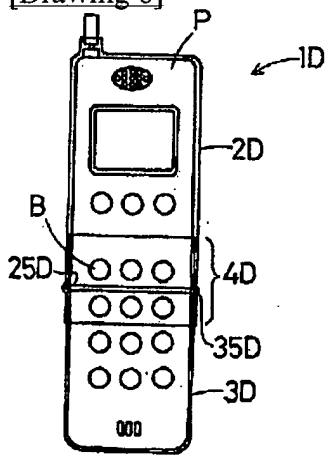
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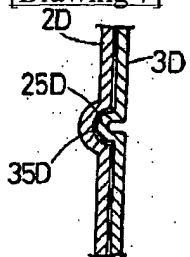
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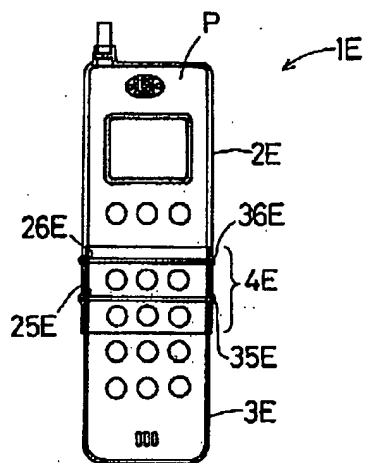
[Drawing 6]



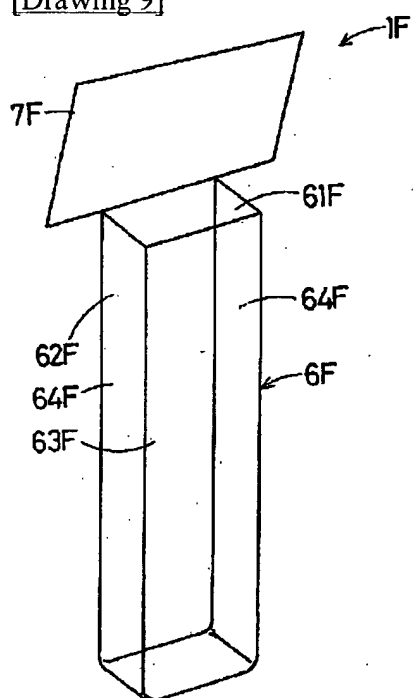
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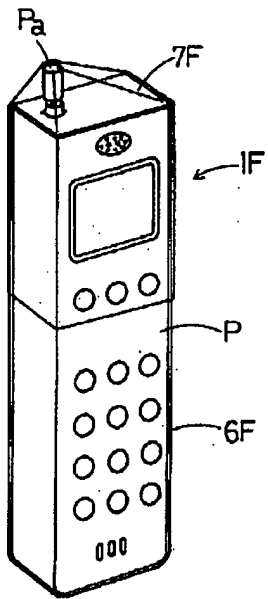
[Drawing 8]



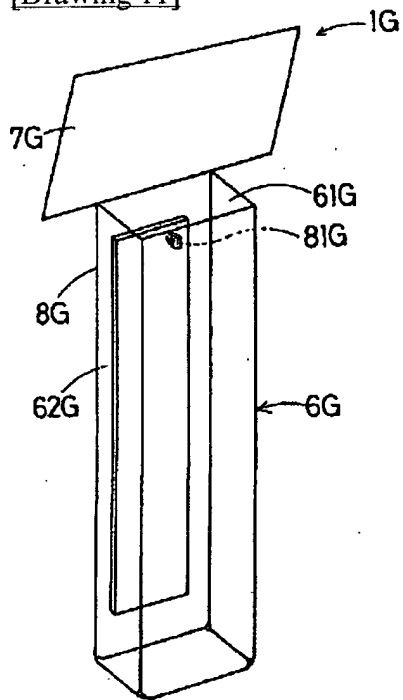
[Drawing 9]



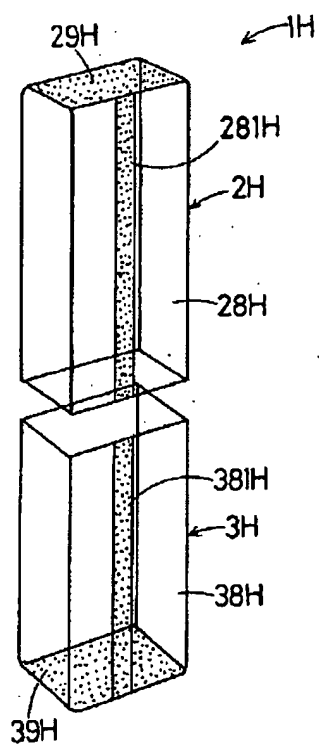
[Drawing 10]



[Drawing 11]



[Drawing 12]



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[Translation done.]